

Implementation regulation of energy efficiency label for room air conditioners

1 General provisions

1.1 The implementation regulations are developed according to *Rules on the administration of Energy Efficiency Labeling* (hereinafter referred to as *the Rules*) ,i.e. the No.17 Order issued by National Development and Reform Commission (NDRC) and General Administration of Quality Supervision , Inspection and Quarantine of the People ' s Republic of China (AQSIQ) .

1.2 The Regulations are applicable to application , registration and publication of energy efficiency label (hereinafter referred to as the Label) for motor driven compressed refrigerators with the capacity of 500L and below for air -cooling condenser , complete shut-off electromotor / compressor **room air conditioners** with 14 000 W and below under climate T1. The regulations are not applicable to movable, VFER or VRF air conditioners.

2. Form and Specification

2.1 The label is a colorful one with blue -and –white background, 109 mm long and 66 mm wide.

2.2 The label title is Zhongguo Nengxiao Biaoshi (English title CHINA ENERGY LABEL) and includes content below:

- (1) Manufacturer's title (or abbreviated title)
- (2) Product specification and model
- (3) Energy efficiency grade
- (4) Energy efficiency ratio
- (5) Cooling capacity (W)
- (6) Power input (W)
- (7) Serial number of the relevant national standard for energy efficiency

2.3 Refer to **Annex 3** for details.

3. Energy efficiency test

3.1 The testing way of cooling capacity, power input and energy efficiency ratio shall be pursuant to the current valid edition of GB 12021.3.

3.2 Please refer to **appendix 1**—*Room air conditioners Test Report* (hereinafter referred to as the test report) for the format of the test report.

3.3 The manufacturer or importer may inspect products by themselves or authorize inspecting authorities approved by national lab approval committee to conduct test.

Energy efficiency inspecting lab is required to submit relevant filing material about the inspecting lab, and the materials should include personnel capabilities, equipment capabilities, test management codes, etc.

The authorized institution is required to check and examine the test capabilities of the test lab.

4 Remark of the label information

4.1 The name of the manufacturer refers to product brand owner or user assuming legal liabilities for the product.

4.2 The product specification model should be complied pursuant to the currently valid edition of GB/T 7725, or use serial number of the enterprise and keep consistent with the remark in the product plate.

4.3 The energy efficiency grade should be identified according to the energy efficiency grade judging method requirements in the currently valid edition of GB 12021.3 and the test report.

4.4 Cooling capacity, power input and energy efficiency ratio should be identified according to the currently valid editions of GB 12021.3 and test report. Energy efficiency ratio in the energy efficiency label should not exceed the value range of the corresponding energy efficiency grade.

4.5 The currently valid edition of GB 12021.3 of the national standards shall be served as proofs.

5. The printing and pasting of labels

5.1 The manufacturer or importer should print labels by themselves and be responsible for the printing quality.

5.2 The label should adopt the cooper plate paper weighing 80g or above for printing.

5.3 The label shall be pasted with non-dry glue. No stain shall be left on the surface after its removal.

5.4 Every manufactured or imported air conditioner should be pasted with a label and

explained in the product user's manual.

5.5 The label shall be placed respectively on the front panel of the indoor unit for split air conditioners or on the top right corner of the indoor unit for vertical ones.

5.5 The label placed on the air conditioners should comply with stipulations in the article 2 of the rules and the pattern, words and color should not be altered. The label specification may be amplified according to the stipulations in article 2.1 of the rules.

5.6 If the label used in the product user's manual and publicity may be enlarged and decreased according to proportion. The label can be printed in black and white, but the words in the label should be clear and legible.

6 Filing of labels

6.1 The manufacturers or importers should be filed one by one according to the models of the product. No test report is required for product with the same cooling system and energy efficiency ratio

6.2 The manufacturer or importer should submit the *Room Air Conditioners Energy Efficiency Label Filing Form* (See **Appendix 3**) via letters and submit related filing materials stipulated by the *Method* within 30 days upon using the label and fill in related filing information on "China energy efficiency label website" (www.energylabel.gov.cn) at the same time.

The filing materials should be complete and truthful.

6.3 In case of any changes about the product filing information, it is required to file again in the authorized institution.

6.4 The authorized institution should finish label information check & exam and filing work within 10 workdays upon receipt of the filing materials (the time for manufacturer or importer to supplement materials will not be counted).

As for those pursuant to the requirements in article 6.2 of the rules, the authorized institution should register label information, file documents, make filing number, and announce on "China energy efficiency label website".

As for those not pursuant to the requirements in the article 6.2 of the rules, the authorized institution shall inform the manufacturer or importer of supplementing materials or replacing the used label in a timely way.

6.5 The manufacturer or importer should submit the report on label use status in the previous year to the authorized institution prior to March 15 every year. The Report

should include main content as follows: label filing status of all models; label supervision and punishment status; label use status and other relevant energy efficiency label materials.

6.6 The materials in foreign language should be accompanied with Chinese version and the latter shall prevail.

7 Label announcements

7.1 As for the enterprises passing the filing check, the authorized institution should announce the label information of the filed products on “China energy efficiency label website”, and publish the label information of the filed products in related media periodically.

7.2 Announce the filing information according to the label filing number.

7.3 The authorized institution should build a product energy efficiency database, provide information inquiry services about product energy efficiency for manufacturers and consumers, and announce the label check, supervision and test status in time.

7.4 The authorized institution will accept the complaint concerning the label from manufacturers and consumers, telephone: (010) 58811738.

Appendix 1:

Room Air Conditioners Energy Efficiency Test Report

Report number:

Testing body (with seal): _____

Tested by: _____ date: _____

Reviewed by: _____ date: _____

Approved by: _____ date: _____

Product name: _____

Model specification: _____

Manufacturer/ Trademark: _____

Authorizing unit: _____

Factory: _____

Notes

1. The report with absence of “the special stamp for test report” or the official seal of the inspecting unit shall be invalid.
2. The duplicated report without being affixed with “the special stamp for test report” or the official seal of the inspecting unit shall be invalid. Unless approved by the authorizing unit in the written form, any part of the report shall not be duplicated.
3. The report without signet of chief inspector, exam & check person or approval person shall be invalid and the report should be affixed with the perforation seal.
4. The report shall be invalid in case of any alteration.
5. In case of any objections to the test report, it is required to propose such objections to the inspecting unit within 15 days upon receipt of the report and the overdue objections shall be rejected.
6. The authorized institution shall be only liable for the sample test.
7. The basis for test and assessment is the current valid edition of the standard quoted by *Implementation Rules of Room air conditioners Energy Efficiency Label*.

Testing Report

Report Number:

Page _ of _pages in all

Name of sample		Model	
		Brand	
Serial number of sample		Grade of samples	
Site of sample		Number of samples	
Date of sample		Cardinal number of samples	
Date of sampling		Original serial number or production date	
Arrival date of sample			
Testing criteria			
Subjected to be tested	Cooling capacity, power consumption for cooling and energy efficiency ratio		
Test conclusion	Cooling capacity, power consumption for cooling and energy efficiency ratio of room air conditioners of XXXX type manufactured by XXXX is tested, the testing items should comply with related requirements in GB 12021.3 and the energy efficiency grade is grade X.		
	(blank space below)		
	Seal for test report Yy/mm/dd		

Sample description and instruction	Product model	<input type="checkbox"/> Split <input type="checkbox"/> Unitary
	Power supply	<input type="checkbox"/> Diphase <input type="checkbox"/> Triphase
	Electronic thermal components	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Multi-pole switch (off completely)	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Mechanical temperature controller	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Temperature controller and other controllers	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Components for protecting purpose under abnormal situation	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Electric control circuit	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Non-detachable power supply cords	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Independent control panel	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Line controller	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Remote controller	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Rated voltage (V)	
	Rated frequency (Hz)	
	Rated current (A)	
	Anti electric shock protection class	
	Waterproof grade	
	Maximum cooling power input (W)	
	Maximum cooling input current (W)	
	Heating power input of heat pump (W), without electric heating	
	Heating power input of heat pump (W), without electric heating	
	Heating power input of electrical heating devices (W)	
	Maximum heating power input (W)	
	Maximum heating input current (W)	
	Indoor noise dB(A)	
	Outdoor noise dB(A)	
	Other descriptions:	

Sample description and instruction	<p>The sample plate and photo (product external appearance and controlled parts) should be attached, and the photos should be clear and legible.</p>
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Test Results

No.	Test item	Technological requirements	Rated value	Standard value	Actually measured value	Assessment for single item	Energy efficiency grade
1	Energy efficiency rate (EER)	Tested according to the testing methods set out by GB12.21.3.The result shall be less than the energy efficient limit。Unit: W/W					
2	Cooling capacity	Tested according to the testing methods set out by GB 12021.3. The result shall be less than 95% of the rated value。Unit: W					
3	Power consumption for cooling	Tested according to the testing methods set out by GB12.21.3.The result shall be less than 110% t of the rated value。Unit: W					

Appendix 2:

Room Air Conditioners Energy Efficiency Label Filing Form

I. The filing party declares:

Our institution hereby guarantees:

The energy efficiency label information used is consistent with the filing information;

The filing in the authorized institution is updated when the model product is altered with its energy efficiency label;

Guarantee the product of this model consistently meets relevant use requirements of the energy efficiency label.

II. Energy efficiency label filing information

Name of the manufacturer: _____

Product specification and model: _____

Item	Values	Remark
Cooling capacity (W)		
Power input (W)		
Energy efficiency ratio (W/W)		
Energy efficiency grade		

III. Initial use date

The filed label begins to be used since _____.

IV. Other information

Sample description

Product model	<input type="checkbox"/> Split	<input type="checkbox"/> Unitary
Power supply	<input type="checkbox"/> Diphase	<input type="checkbox"/> Triphase
Electronic thermal components	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Multi-pole switch (off completely)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Mechanical temperature controller	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Temperature controller and other controllers	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Components for protecting purpose under abnormal situation	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Electric control circuit	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Non-detachable power supply cords	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Independent control panel	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Line controller	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Remote controller	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Rated voltage (V)		
Rated frequency (Hz)		
Rated current (A)		
Anti electric shock protection class		
Waterproof grade		
Maximum cooling power input (W)		
Maximum cooling input current (W)		
Heating power input of heat pump (W), without electric heating		
Heating power input of heat pump (W), without electric heating		
Heating power input of electrical heating devices (W)		
Maximum heating power input (W)		
Maximum heating input current (W)		
Indoor noise dB(A)		
Outdoor noise dB(A)		
Applicable area (m ²)		
Heating capacity (W)		
Heating power input (W)		
Coefficient of performance (COP)(W/W)		
	Unitary or indoor	Outdoor
Appearance size (lengths × width × height) (mm)		
Refrigerants name		
Perfusion amount of refrigerants (kg)		

Extended model information

No.	Specification and model	Cooling capacity (W)	Power input (W)	Energy efficiency ratio (W/W)	Energy efficiency grade

Filing party (affixed with the official seal):

Date: _____